Patent Number(s): JP49045015-A; JP79011289-B

**Title:** Dicarboxylic acid glycol esters prepn. - by transesterification in presence of an epoxide or styrene oxide with quaternary ammonium or tert amine compds

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Patents Cited by Inventor: 0
Patents Cited by Examiner: 0
Abstract:

Citing Patents: 0
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Dicarboxylic acid glycol esters are prepd. by transesterification in the presence of (a) epoxide (I; X = halo, 1-10C alkyl, RO, p-R'C6H4O, where R = 1-17C alkyl and R' = 1-8C alkyl, halo, Ph) or styrene oxide and (b) quaternary ammonium salts or hydroxides. tertiary amines, their org. acid salts, phosphines, alkali or alk. earth metal salts, or M1M2R complex (M1-2 = metal, R = H, 1-4C alkyl), with or without usual esterinterchange catalysts. This effects rapid transesterification. In an example, heating 582 pts. di-me terephthalate and 410 pts. ethylene glycol with 4.5 pts. Ph glycidyl ether and 0.64 pts. cetyltrimethylammonium chloride at 197 degrees caused 98.5% transesterification in 30 min and complete reaction in 33 min. Polymn. with Sb2O3 gave a colourless polyester of high intrinsic viscosity.

**International Patent Classification:** <u>B01J-031/02</u>; <u>C07C-067/03</u>; <u>C07C-069/00</u> **Derwent Class:** <u>A41</u> (Monomers, Condensants (see also Section E)); <u>E19</u> (Other organic compounds general - unknown structure, mixtures)

Derwent Manual Code(s): <u>A02-A</u>; <u>A05-E01A</u>; <u>E10-G02</u>

**Patent Details:** 

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